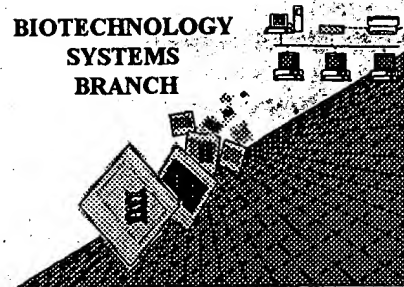


W. Moore

RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/147,947
Art Unit / Team No. : 1652
Date Processed by STIC: 11/15/99

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/147947

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
 (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
 This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)
- 12 Use of <220>Featur Sequence(s) are missing the <220>Featur and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

W Moore

1652

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/147,947

DATE: 11/15/1999
TIME: 14:07:40

Input Set: I147947.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

Does Not Comply
Corrected Diskette Needed

1 <110> APPLICANT: TSURUOKA, Nobuo
2 YAMASHIRO, Kyoko
3 YAMAGUCHI, Nozomi
4 <120> TITLE OF INVENTION: Novel Serine Protease
5 <130> FILE REFERENCE: 001560-349
6 <140> CURRENT APPLICATION NUMBER: US/09/147,947
7 <141> CURRENT FILING DATE: 1999-03-24
8 <150> EARLIER APPLICATION NUMBER: PCT/JP98/03324
9 <151> EARLIER FILING DATE: 1998-07-24
10 <150> EARLIER APPLICATION NUMBER: JP 9/213969
11 <151> EARLIER FILING DATE: 1997-07-24

12 <160> NUMBER OF SEQ ID NOS: 6
13 <170> SOFTWARE: PatentIn Ver. 2.0
14 <210> SEQ ID NO 1
15 <211> LENGTH: 20
16 <212> TYPE: DNA
17 <213> ORGANISM: Artificial Sequence
18 <220> FEATURE:

19 <223> OTHER INFORMATION: Synthetic DNA

20 <400> SEQUENCE: 1

W-->

21 gtgctcacng chgcbcaytg

20

22 <210> SEQ ID NO 2

23 <211> LENGTH: 20

24 <212> TYPE: DNA

25 <213> ORGANISM: Artificial Sequence

26 <220> FEATURE:

27 <223> OTHER INFORMATION: Synthetic DNA

28 <400> SEQUENCE: 2

W-->

29 agcgggncnc cdgartcvcc

20

30 <210> SEQ ID NO 3

31 <211> LENGTH: 2614

32 <212> TYPE: DNA

33 <213> ORGANISM: Mouse

34 <220> FEATURE:

35 <223> OTHER INFORMATION:

36 <400> SEQUENCE: 3

37 cgagggtggg gtggaggteg gactccgggc tacagagctc ctggcgctca tgcctctgg 60

38 ctccagcctt tgettccggg ggctgacct ttgggtccc gtgtgacct ccagctgccc 120

39 cgggggctgg gacagcagg cgggcgccg agcgtgggag ggggctctag gactctgccg 180

40 gccccgcccc gcccctccg cggggacct gagccagca tggaccacac tcggcgccgc 240

41 agcc atg gcg ctc gcc cgc tgc gtg ctg gct gtg att tta ggg gca ctg 289

42 Met Ala Leu Ala Arg Cys Val Leu Ala Val Ile Leu Gly Ala Leu

43 1 5 10 15

44 tct gta gtg gcc cgc gct gat ccg gtc tcg cgc tct ccc ctt cac cgc 337

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/147,947

DATE: 11/15/1999
TIME: 14:07:40

Input Set: I147947.RAW

45	Ser Val Val Ala Arg Ala Asp Pro Val Ser Arg Ser Pro Leu His Arg	
46		20 25 30
47	ccg cat ccg tcc cca ccg cgt tcc caa cac gcg cac tac ctt ccc agc	385
48	Pro His Pro Ser Pro Pro Arg Ser Gln His Ala His Tyr Leu Pro Ser	
49		35 40 45
50	tcg cgg cgg cca ccc agg acc ccg cgc ttc ccg ctc ccg ctg cgg atc	433
51	Ser Arg Arg Pro Pro Arg Thr Pro Arg Phe Pro Leu Pro Leu Arg Ile	
52		50 55 60
53	ccc gct gcc cag cgc ccg cag gtc ctc agc acc ggg cac acg ccc ccg	481
54	Pro Ala Ala Gln Arg Pro Gln Val Leu Ser Thr Gly His Thr Pro Pro	
55		65 70 75
56	acg att cca cgc cgc tgc ggg gca gga gag tgc tgg ggc aat gcc acc	529
57	Thr Ile Pro Arg Arg Cys Gly Ala Gly Glu Ser Trp Gly Asn Ala Thr	
58		80 85 90 95
59	aac ctc ggc gtc ccg tgt cta cac tgg gac gag gtg ccg ccc ttc ctg	577
60	Asn Leu Gly Val Pro Cys Leu His Trp Asp Glu Val Pro Pro Phe Leu	
61		100 105 110
62	gag cgg tgc ccc ccg gcc agt tgg gct gag ctg cga ggg cag ccg cac	625
63	Glu Arg Ser Pro Pro Ala Ser Trp Ala Glu Leu Arg Gly Gln Pro His	
64		115 120 125
65	aac ttc tgc cgg agc ccg gat ggc tgc ggc aga cct tgg tgc ttc tat	673
66	Asn Phe Cys Arg Ser Pro Asp Gly Ser Gly Arg Pro Trp Cys Phe Tyr	
67		130 135 140
68	cgg aat gcc cag ggc aaa gta gac tgg ggc tac tgc gat tgt ggt caa	721
69	Arg Asn Ala Gln Gly Lys Val Asp Trp Gly Tyr Cys Asp Cys Gly Gln	
70		145 150 155
71	ggc ccg gcg ttg ccc gtc att cgc ctt gtt ggt ggg aac agt ggg cat	769
72	Gly Pro Ala Leu Pro Val Ile Arg Leu Val Gly Gly Asn Ser Gly His	
73		160 165 170 175
74	gaa ggt cga gtg gag ctg tac cac gct ggc cag tgg ggg acc atc tgt	817
75	Glu Gly Arg Val Glu Leu Tyr His Ala Gly Gln Trp Gly Thr Ile Cys	
76		180 185 190
77	gac gac caa tgg gac aat gca gac gca gac gtc atc tgt agg cag ctg	865
78	Asp Asp Gln Trp Asp Asn Ala Asp Ala Asp Val Ile Cys Arg Gln Leu	
79		195 200 205
80	ggg ctc agt ggc att gcc aaa gca tgg cat cag gca cat ttt ggg gaa	913
81	Gly Leu Ser Gly Ile Ala Lys Ala Trp His Gln Ala His Phe Gly Glu	
82		210 215 220
83	gga tct ggc cca ata ttg ttg gat gaa gta cgc tgc acc gga aac gag	961
84	Gly Ser Gly Pro Ile Leu Leu Asp Glu Val Arg Cys Thr Gly Asn Glu	
85		225 230 235
86	ctg tca att gag caa tgt cca aag agt tcc tgg ggc gaa cat aac tgt	1009
87	Leu Ser Ile Glu Gln Cys Pro Lys Ser Ser Trp Gly Glu His Asn Cys	
88		240 245 250 255
89	ggc cat aaa gaa gat gct gga gtg tct tgt gtt cct cta aca gat ggt	1057
90	Gly His Lys Glu Asp Ala Gly Val Ser Cys Val Pro Leu Thr Asp Gly	
91		260 265 270
92	gtc atc aga ctg gca gga gga aaa agt acc cat gaa ggt cgc ctg gag	1105
93	Val Ile Arg Leu Ala Gly Gly Lys Ser Thr His Glu Gly Arg Leu Glu	
94		275 280 285

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/147,947

DATE: 11/15/1999
TIME: 14:07:40

Input Set: I147947.RAW

95	gtc tac tac aag ggg cag tgg ggg aca gtc tgt gat gat ggc tgg act	1153
96	Val Tyr Tyr Lys Gly Gln Trp Gly Thr Val Cys Asp Asp Gly Trp Thr	
97	290 295 300	
98	gag atg aac aca tac gtg gct tgt cga ctg ctg gga ttt aaa tac ggc	1201
99	Glu Met Asn Thr Tyr Val Ala Cys Arg Leu Leu Gly Phe Lys Tyr Gly	
100	305 310 315	
101	aaa cag tcc tct gtg aac cat ttt gat ggc agc aac agg ccc ata tgg	1249
102	Lys Gln Ser Ser Val Asn His Phe Asp Gly Ser Asn Arg Pro Ile Trp	
103	320 325 330 335	
104	ctg gat gac gtc agc tgc tca gga aaa gaa gtc agc ttc att cag tgt	1297
105	Leu Asp Asp Val Ser Cys Ser Gly Lys Glu Val Ser Phe Ile Gln Cys	
106	340 345 350	
107	tcc agg aga cag tgg gga agg cat gac tgc agc cat aga gaa gat gtg	1345
108	Ser Arg Arg Gln Trp Gly Arg His Asp Cys Ser His Arg Glu Asp Val	
109	355 360 365	
110	ggc ctc acc tgc tat cct gac agc gat gga cat agg ctt tct cca ggt	1393
111	Gly Leu Thr Cys Tyr Pro Asp Ser Asp Gly His Arg Leu Ser Pro Gly	
112	370 375 380	
113	ttt ccc atc aga cta gtg gat gga gag aat aag aag gaa gga cga gtg	1441
114	Phe Pro Ile Arg Leu Val Asp Gly Glu Asn Lys Lys Glu Gly Arg Val	
115	385 390 395	
116	gag gtt ttt gtc aat ggc caa tgg gga aca atc tgc gat gac gga tgg	1489
117	Glu Val Phe Val Asn Gly Gln Trp Gly Thr Ile Cys Asp Asp Gly Trp	
118	400 405 410 415	
119	acc gat aag cat gca gct gtg atc tgc cgg cag ctt ggc tat aag ggt	1537
120	Thr Asp Lys His Ala Ala Val Ile Cys Arg Gln Leu Gly Tyr Lys Gly	
121	420 425 430	
122	cct gcc aga gca agg act atg gct tat ttt ggg gaa gga aaa ggc ccc	1585
123	Pro Ala Arg Ala Arg Thr Met Ala Tyr Phe Gly Glu Gly Lys Gly Pro	
124	435 440 445	
125	atc cac atg gat aat gtg aag tgc aca gga aat gag aag gcc ctg gct	1633
126	Ile His Met Asp Asn Val Lys Cys Thr Gly Asn Glu Lys Ala Leu Ala	
127	450 455 460	
128	gac tgt gtc aaa caa gac att gga agg cac aac tgc cgc cac agt gag	1681
129	Asp Cys Val Lys Gln Asp Ile Gly Arg His Asn Cys Arg His Ser Glu	
130	465 470 475	
131	gat gca gga gtc atc tgt gac tat tta gag aag aaa gca tca agt agt	1729
132	Asp Ala Gly Val Ile Cys Asp Tyr Leu Glu Lys Lys Ala Ser Ser Ser	
133	480 485 490 495	
134	ggg aat aaa gag atg ctc tca tct gga tgt gga ctg agg tta ctg cac	1777
135	Gly Asn Lys Glu Met Leu Ser Ser Gly Cys Gly Leu Arg Leu Leu His	
136	500 505 510	
137	cgt cgg cag aaa cgg atc att ggt ggg aac aat tct tta agg ggt gcc	1825
138	Arg Arg Gln Lys Arg Ile Ile Gly Gly Asn Asn Ser Leu Arg Gly Ala	
139	515 520 525	
140	tgg cct tgg cag gct tcc ctc agg ctg agg tgc gcc cat gga gac ggc	1873
141	Trp Pro Trp Gln Ala Ser Leu Arg Leu Arg Ser Ala His Gly Asp Gly	
142	530 535 540	
143	agg ctg ctt tgt gga gct acc ctt ctg agt agc tgc tgg gtc ctg aca	1921
144	Arg Leu Leu Cys Gly Ala Thr Leu Leu Ser Ser Cys Trp Val Leu Thr	

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/147,947

DATE: 11/15/1999
TIME: 14:07:40

Input Set: I147947.RAW

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145          545          550          555
146      gct gca cac tgc ttc aaa agg tac gga aac aac tcg agg agc tat gca      1969
147      Ala Ala His Cys Phe Lys Arg Tyr Gly Asn Asn Ser Arg Ser Tyr Ala
148      560          565          570          575
149      gtt cga gtt ggg gat tat cat act ctg gta cca gag gag ttt gaa caa      2017
150      Val Arg Val Gly Asp Tyr His Thr Leu Val Pro Glu Glu Phe Glu Gln
151          580          585          590
152      gaa ata ggg gtt caa cag att gtg att cac agg aac tac agg cca gac      2065
153      Glu Ile Gly Val Gln Gln Ile Val Ile His Arg Asn Tyr Arg Pro Asp
154          595          600          605
155      aga agc gac tat gac att gcc ctg gtt aga ttg caa gga cca ggg gag      2113
156      Arg Ser Asp Tyr Asp Ile Ala Leu Val Arg Leu Gln Gly Pro Gly Glu
157          610          615          620
158      caa tgt gcc aga cta agc acc cac gtt ttg cca gcc tgt tta cct cta      2161
159      Gln Cys Ala Arg Leu Ser Thr His Val Leu Pro Ala Cys Leu Pro Leu
160          625          630          635
161      tgg aga gag agg cca cag aaa aca gcc tcc aac tgt cac ata aca gga      2209
162      Trp Arg Glu Arg Pro Gln Lys Thr Ala Ser Asn Cys His Ile Thr Gly
163      640          645          650          655
164      tgg gga gac aca ggt cgt gcc tac tca aga act cta caa caa gct gct      2257
165      Trp Gly Asp Thr Gly Arg Ala Tyr Ser Arg Thr Leu Gln Gln Ala Ala
166          660          665          670
167      gtg cct ctg tta ccc aag agg ttt tgt aaa gag agg tac aag gga cta      2305
168      Val Pro Leu Leu Pro Lys Arg Phe Cys Lys Glu Arg Tyr Lys Gly Leu
169          675          680          685
170      ttt act ggg aga atg ctc tgt gct ggg aac ctc caa gaa gac aac cgt      2353
171      Phe Thr Gly Arg Met Leu Cys Ala Gly Asn Leu Gln Glu Asp Asn Arg
172          690          695          700
173      gtg gac agc tgc cag gga gac agt gga gga cca ctc atg tgt gaa aag      2401
174      Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Met Cys Glu Lys
175          705          710          715
176      cct gat gag tcc tgg gtt gtg tat ggg gtg act tcc tgg ggg tat gga      2449
177      Pro Asp Glu Ser Trp Val Val Tyr Gly Val Thr Ser Trp Gly Tyr Gly
178      720          725          730          735
179      tgt gga gtc aaa gac act cct gga gtt tat acc aga gtc ccc gcc ttt      2497
180      Cys Gly Val Lys Asp Thr Pro Gly Val Tyr Thr Arg Val Pro Ala Phe
181          740          745          750
182      gta cct tgg ata aaa agt gtc acc agt ctg taacttatgg aaagctcaag      2547
183      Val Pro Trp Ile Lys Ser Val Thr Ser Leu
184          755          760
185      aaaatagtaa aacagtaacc attcagtctt catacttggc accatgccag aaaaaaaaaa      2607
186      aaaaaaa      2614
187      <210> SEQ ID NO 4
188      <211> LENGTH: 761
189      <212> TYPE: PRT
190      <213> ORGANISM: Mouse
191      <220> FEATURE:
192      <223> OTHER INFORMATION:
193      <400> SEQUENCE: 4
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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/147,947

DATE: 11/15/1999
TIME: 14:07:40

Input Set: I147947.RAW

195	1	5	10	15
196	Val Val Ala Arg Ala Asp Pro Val Ser Arg Ser Pro Leu His Arg Pro			
197		20	25	30
198	His Pro Ser Pro Pro Arg Ser Gln His Ala His Tyr Leu Pro Ser Ser			
199		35	40	45
200	Arg Arg Pro Pro Arg Thr Pro Arg Phe Pro Leu Pro Leu Arg Ile Pro			
201		50	55	60
202	Ala Ala Gln Arg Pro Gln Val Leu Ser Thr Gly His Thr Pro Pro Thr			
203		65	70	75
204	Ile Pro Arg Arg Cys Gly Ala Gly Glu Ser Trp Gly Asn Ala Thr Asn			
205		85	90	95
206	Leu Gly Val Pro Cys Leu His Trp Asp Glu Val Pro Pro Phe Leu Glu			
207		100	105	110
208	Arg Ser Pro Pro Ala Ser Trp Ala Glu Leu Arg Gly Gln Pro His Asn			
209		115	120	125
210	Phe Cys Arg Ser Pro Asp Gly Ser Gly Arg Pro Trp Cys Phe Tyr Arg			
211		130	135	140
212	Asn Ala Gln Gly Lys Val Asp Trp Gly Tyr Cys Asp Cys Gly Gln Gly			
213		145	150	155
214	Pro Ala Leu Pro Val Ile Arg Leu Val Gly Gly Asn Ser Gly His Glu			
215		165	170	175
216	Gly Arg Val Glu Leu Tyr His Ala Gly Gln Trp Gly Thr Ile Cys Asp			
217		180	185	190
218	Asp Gln Trp Asp Asn Ala Asp Ala Asp Val Ile Cys Arg Gln Leu Gly			
219		195	200	205
220	Leu Ser Gly Ile Ala Lys Ala Trp His Gln Ala His Phe Gly Glu Gly			
221		210	215	220
222	Ser Gly Pro Ile Leu Leu Asp Glu Val Arg Cys Thr Gly Asn Glu Leu			
223		225	230	235
224	Ser Ile Glu Gln Cys Pro Lys Ser Ser Trp Gly Glu His Asn Cys Gly			
225		245	250	255
226	His Lys Glu Asp Ala Gly Val Ser Cys Val Pro Leu Thr Asp Gly Val			
227		260	265	270
228	Ile Arg Leu Ala Gly Gly Lys Ser Thr His Glu Gly Arg Leu Glu Val			
229		275	280	285
230	Tyr Tyr Lys Gly Gln Trp Gly Thr Val Cys Asp Asp Gly Trp Thr Glu			
231		290	295	300
232	Met Asn Thr Tyr Val Ala Cys Arg Leu Leu Gly Phe Lys Tyr Gly Lys			
233		305	310	315
234	Gln Ser Ser Val Asn His Phe Asp Gly Ser Asn Arg Pro Ile Trp Leu			
235		325	330	335
236	Asp Asp Val Ser Cys Ser Gly Lys Glu Val Ser Phe Ile Gln Cys Ser			
237		340	345	350
238	Arg Arg Gln Trp Gly Arg His Asp Cys Ser His Arg Glu Asp Val Gly			
239		355	360	365
240	Leu Thr Cys Tyr Pro Asp Ser Asp Gly His Arg Leu Ser Pro Gly Phe			
241		370	375	380
242	Pro Ile Arg Leu Val Asp Gly Glu Asn Lys Lys Glu Gly Arg Val Glu			
243		385	390	395
244	Val Phe Val Asn Gly Gln Trp Gly Thr Ile Cys Asp Asp Gly Trp Thr			

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VERIFICATION SUMMARY
PATENT APPLICATION US/09/147,947

DATE: 11/15/1999
TIME: 14:07:40

Input Set: I147947.RAW

Line ? Error/Warning

Original Text

21 W "N" or "Xaa" used: Feature required

gtgctcacng cngcbcaytg

29 W "N" or "Xaa" used: Feature required

agcggnccnc cdgartcvcc